

FIG. 1

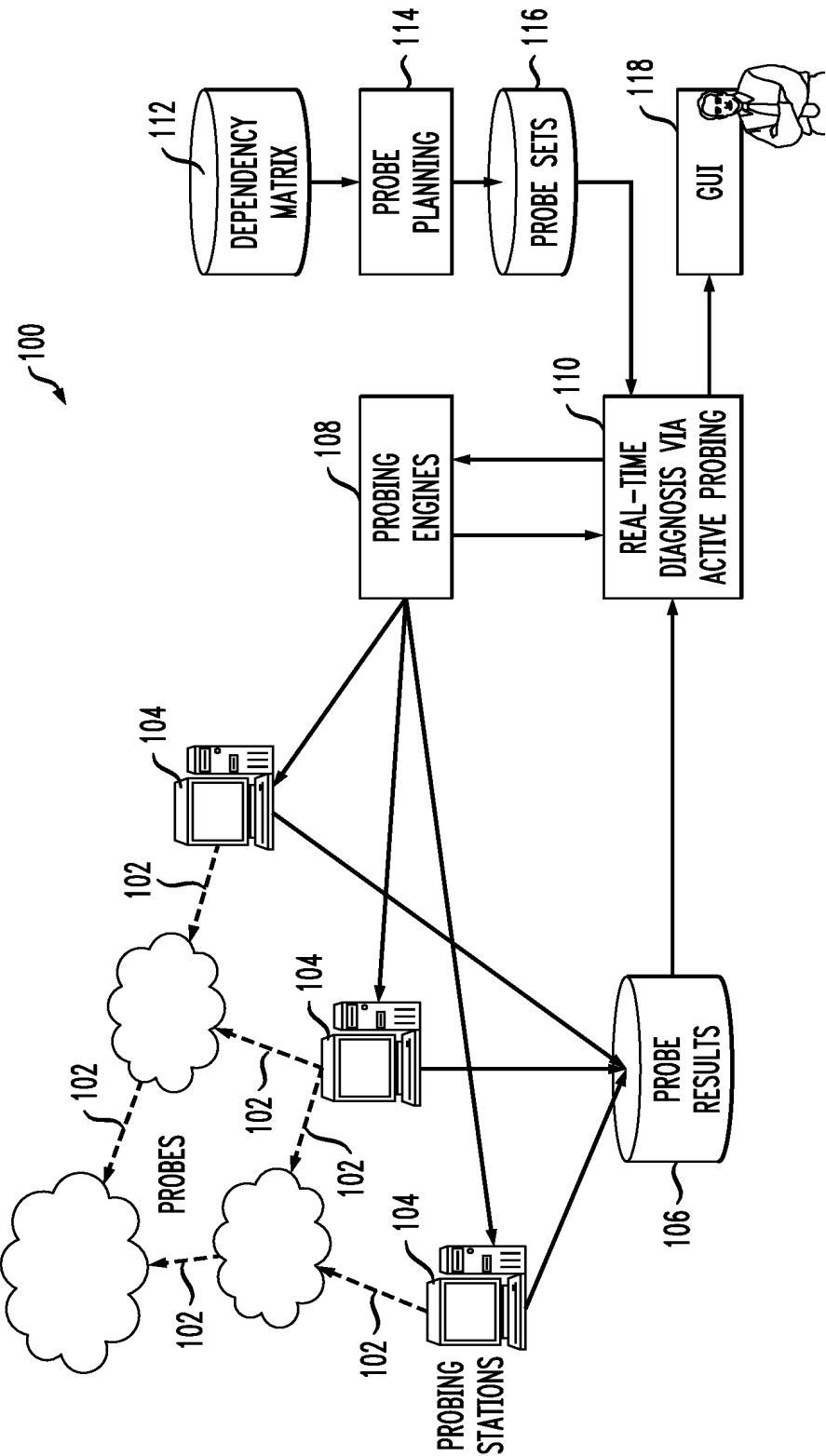


FIG. 2

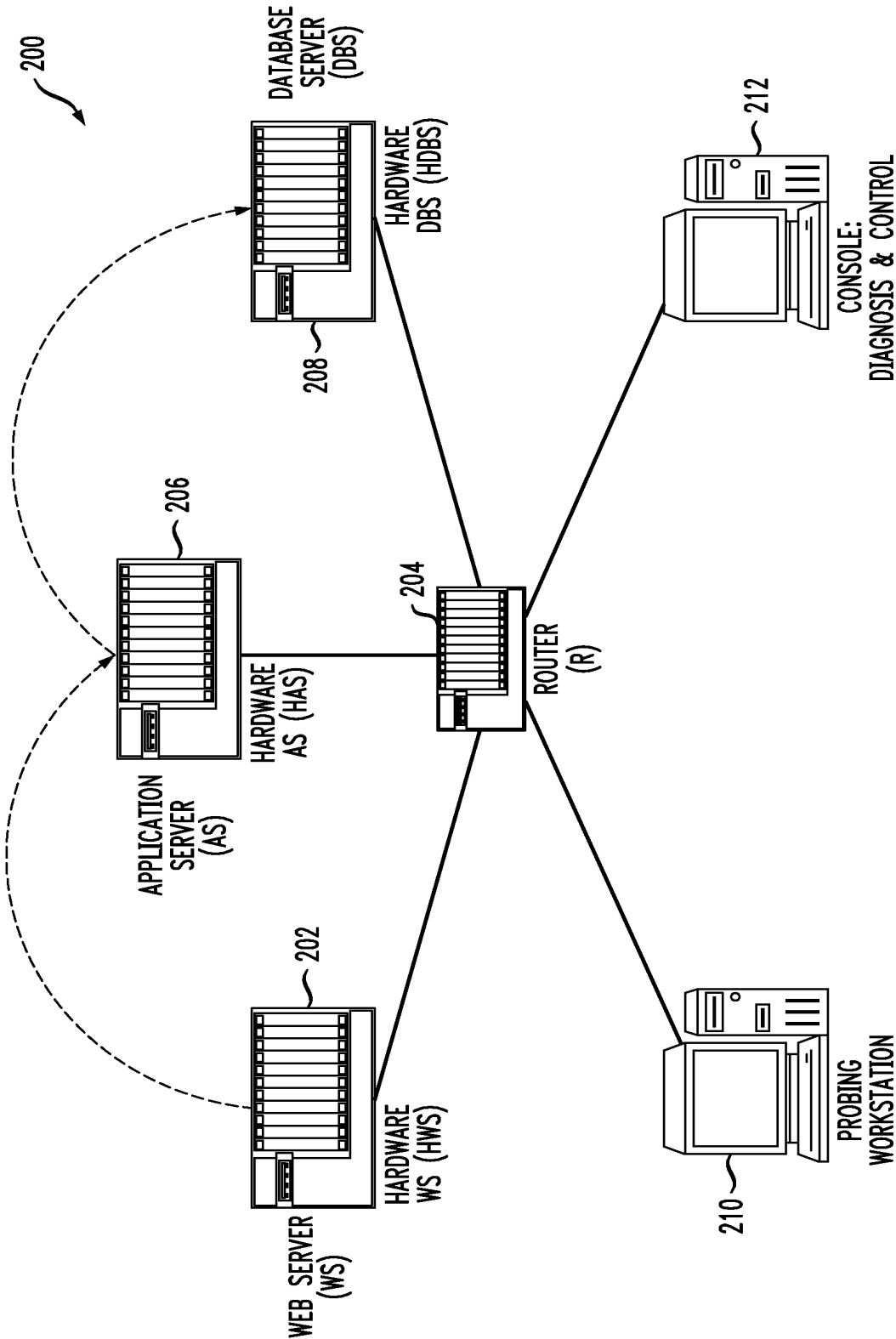


FIG. 3

DEPENDENCY MATRIX								
304	PROBLEM PROBE	WS	AS	DBS	R	HWS	HAS	HDBS
		302						
	pWS	1	1	1	1	1	1	1
	pAS	0	1	1	1	0	1	1
	pDBS	0	0	1	1	0	0	1
	pingR	0	0	0	1	0	0	0
	pingWS	0	0	0	1	1	0	0
	pingAS	0	0	0	1	0	1	0
	pingDBS	0	0	0	1	0	0	1

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PROBES:

pWS – WEB PAGE ACCESS
pAS – APPLICATION SERVER ACCESS
pDBS – DATABASE QUERY
pingR – PING ROUTER
pingWS – PING WEB SERVER
pingAS – PING APPLICATION SERVER
pingDBS – PING DATABASE SERVER

FIG. 4

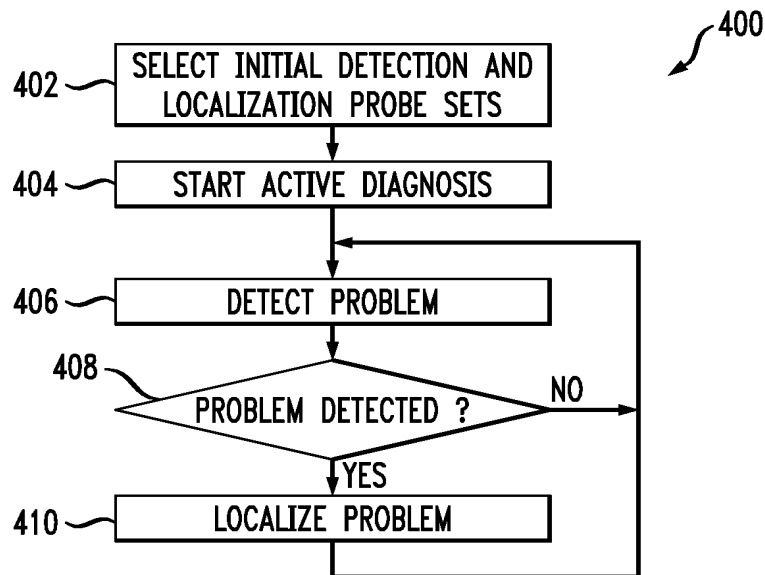


FIG. 5

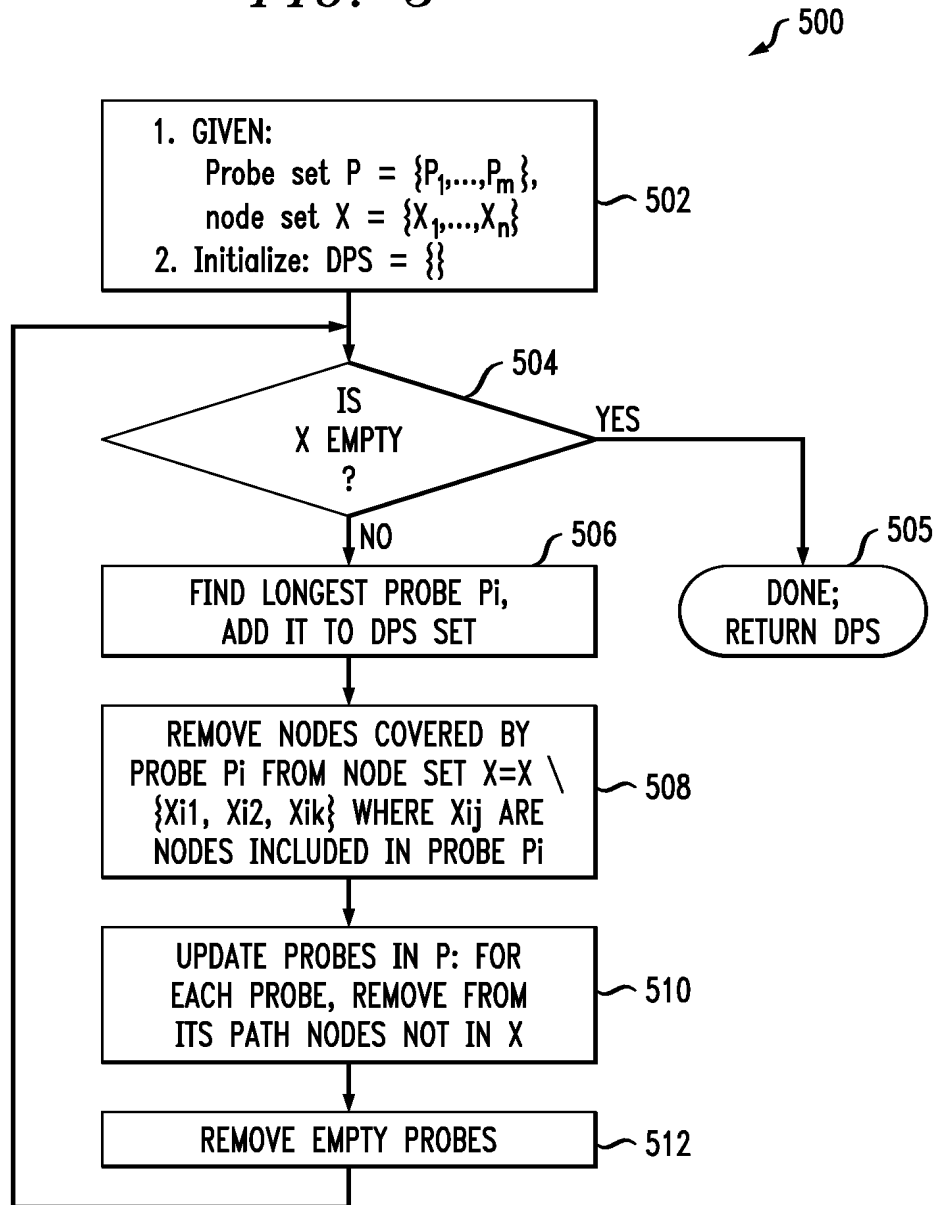


FIG. 6

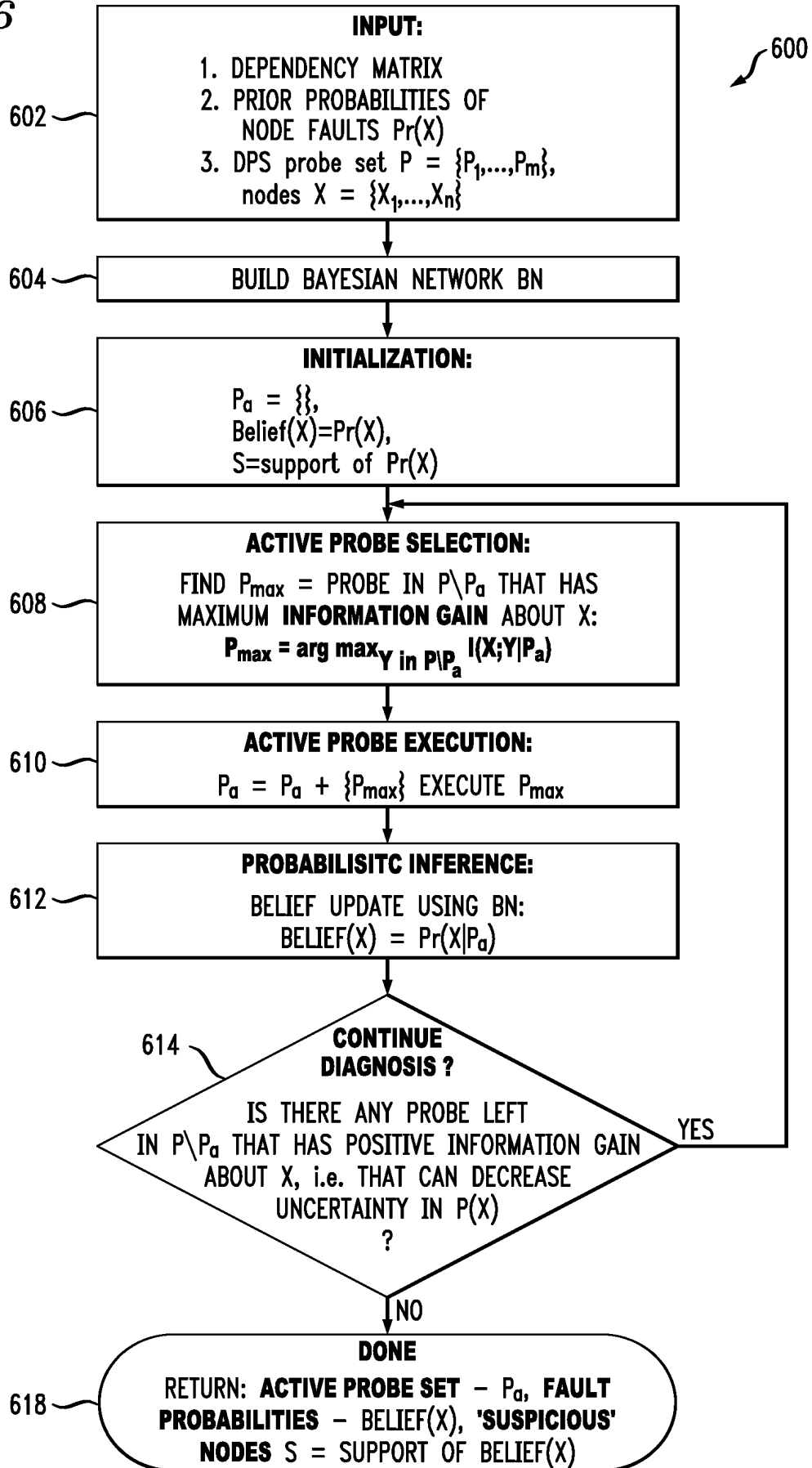
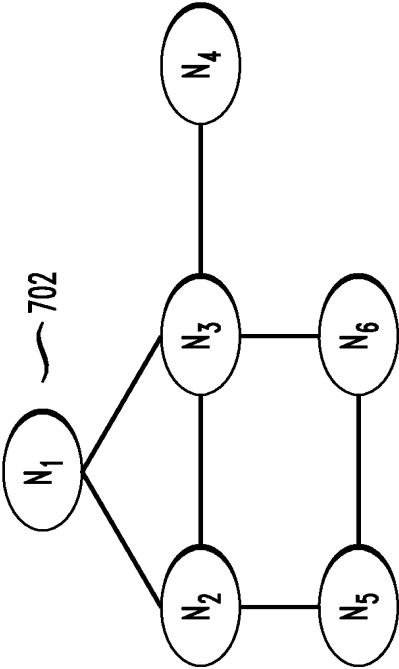


FIG. 7



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$$X_i = \begin{cases} 1 & \text{if } N_i \text{ is OK,} \\ 0 & \text{otherwise} \end{cases}$$
$$P_j = \begin{cases} 1 & \text{if Probe } j \text{ is OK,} \\ 0 & \text{otherwise} \end{cases}$$

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DEPENDENCY MATRIX 704

	N ₁	N ₂	N ₃	N ₄	N ₅	N ₆
PROBE ₁ = P ₁₅	1	1	0	0	1	0
PROBE ₂ = P ₁₆	1	0	1	0	0	1
PROBE ₃ = P ₄₂	0	1	1	1	0	0

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BAYESIAN NETWORK

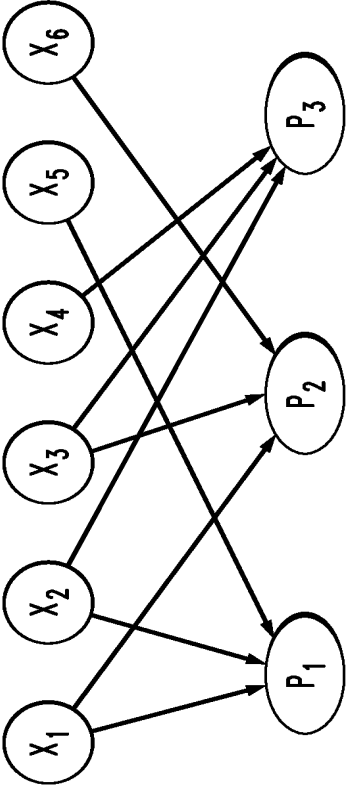


FIG. 8

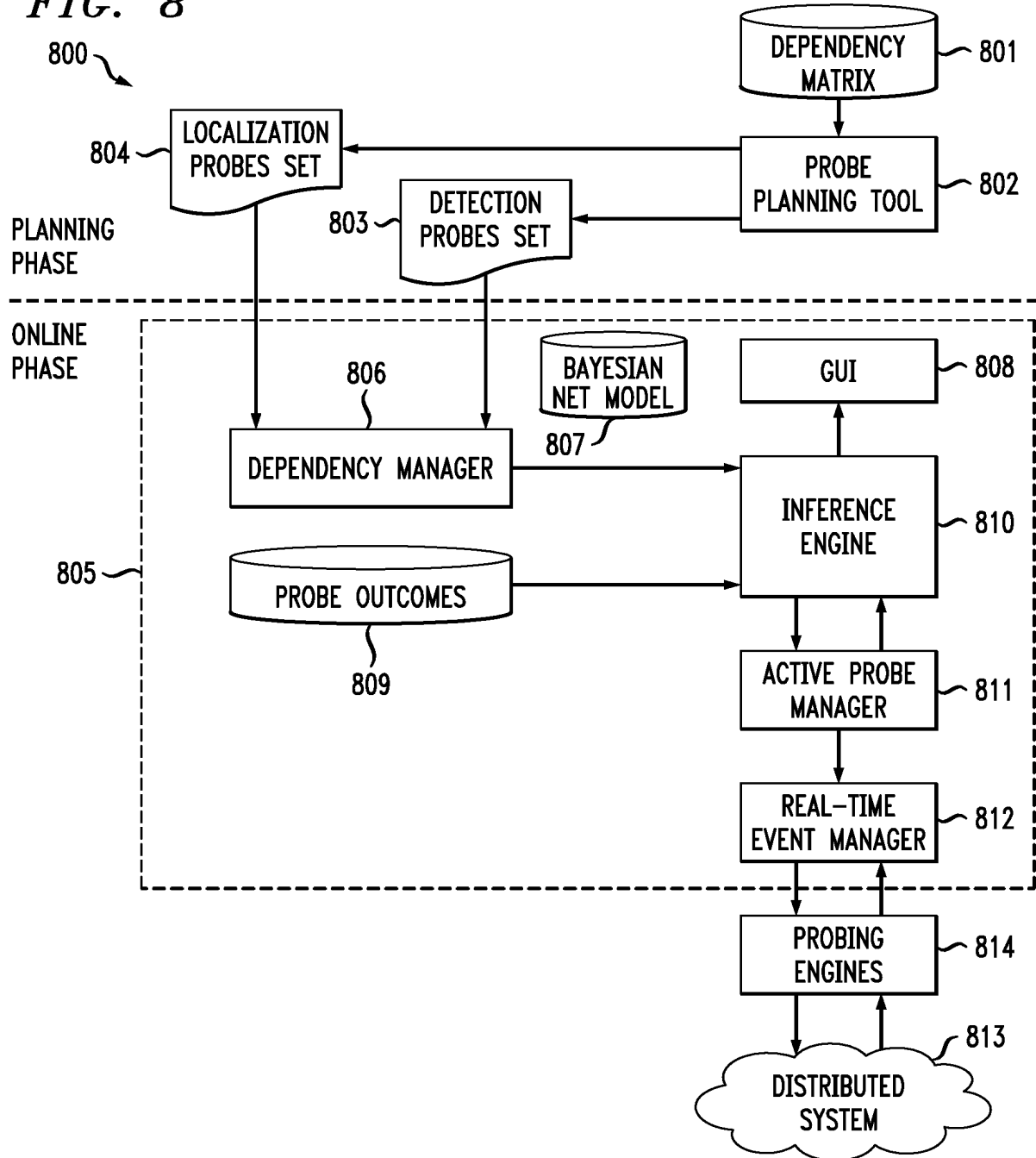


FIG. 9

